



(19)

(11) Publication number: **6**

Generated Document.

PATENT ABSTRACTS OF JAPAN(21) Application number: **59226813**(51) Intl. Cl.: **B01D 13/01 B01D 13/00 G21**(22) Application date: **30.10.84**

<p>(30) Priority:</p> <p>(43) Date of application publication: 26.05.86</p> <p>(84) Designated contracting states:</p>	<p>(71) Applicant: TOSHIBA CORP</p> <p>(72) Inventor: YANAIDA MAKOTO</p> <p>(74) Representative:</p>
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(54) FILTER

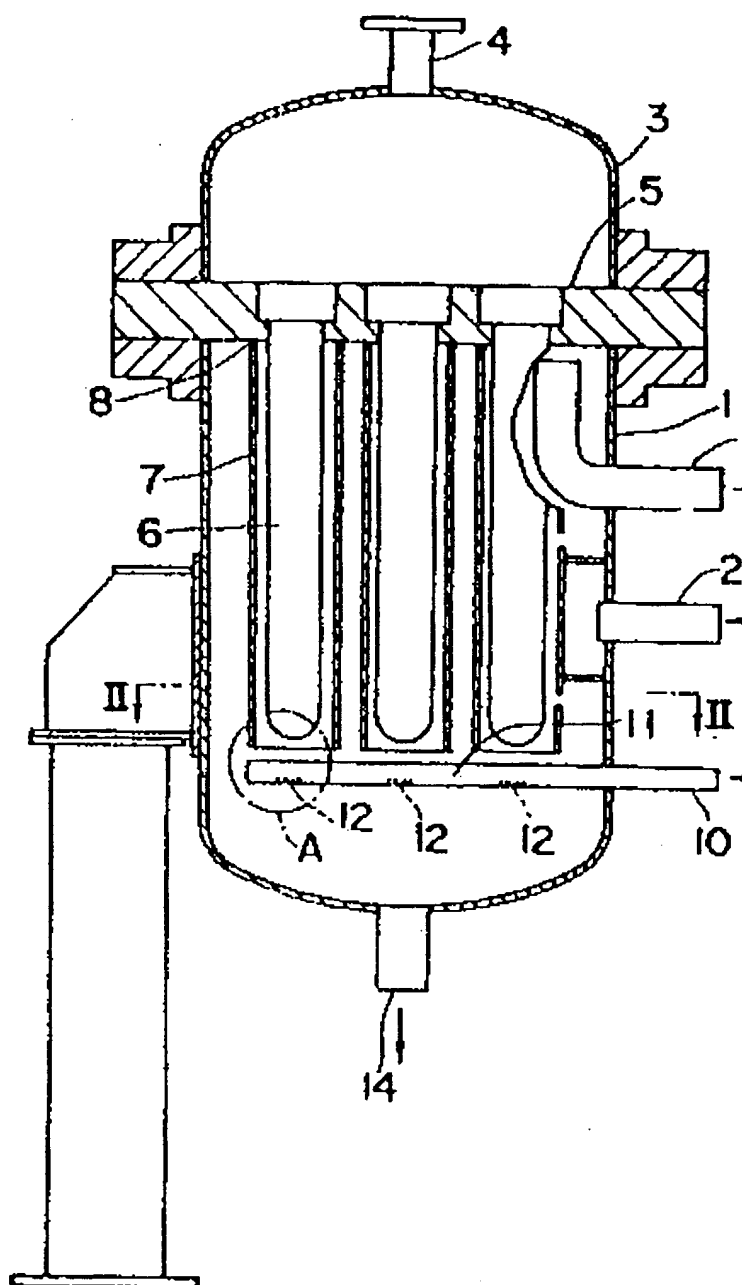
(57) Abstract:

PURPOSE: To back-wash impurities adhering to the external side of a hollow yarn membrane by arranging a scrubbing air pipe with a bubble outlet hole set downward corresponding to the positions of plural suspended filter elements below the filter elements.

CONSTITUTION: A filter has plural filter elements 6 using hollow yarn membrane suspended on a tube plate 5 of a main unit casing 1. A scrubbing air pipe 11 is arranged in lattice form at the inner bottom of the main unit casing 1 corresponding to the lower part of the filter elements 6. A bubble outlet hole 12 is opened downward corresponding to the position of each filter element 6. The air supplied from outside during back-washing pushes out waste liquid accumulated in the scrubbing air pipe 11, hitting the filter element in its ascent and making impurities adhering to the external surface

around easily come off.

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